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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/804,265	03/18/2004	Nikhil Jain	030259U1	7450	
	7590 06/10/200 INCORPORATED	8	EXAMINER		
5775 MOREHO	OUSE DR.	TAYLOR, BARRY W			
SAN DIEGO, O	JA 92121		ART UNIT	PAPER NUMBER	
			2617		
			NOTIFICATION DATE	DELIVERY MODE	
			06/10/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Occurrence		Application No. Applicant(s)							
		10/804,265		JAIN ET AL.					
Office Action Summary			Examiner		Art Unit				
			Barry W. Tay	lor e	2617				
Period fo	The MAILING DATE of this commun r Reply	nication appe	ears on the c	over sheet with the c	orrespondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠	Responsive to communication(s) file	ed on 28 Fe <i>l</i>	hruary 2008						
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>28 February 2008</u> . This action is FINAL . 2b)⊠ This action is non-final.								
<i>'</i> —		<i>'—</i>			secution as to th	e merits is			
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
	on of Claims			,					
· ·		is/ara pandin	na in the ann	dication					
•	Claim(s) 1,2,4-11,13-16 and 18-22 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
'—	5) Claim(s) is/are allowed. 6) Claim(s) <u>1,2,4-11,13-16 and 18-22</u> is/are rejected.								
· ·		is/are rejecte	au.						
•	Claim(s) is/are objected to.	otion and/or	alastian ragi	uiromont					
اـــا(٥	Claim(s) are subject to restric	ction and/or t	election req	лпеттетт.					
Application	on Papers								
9) 🔲 -	Γhe specification is objected to by th	e Examiner.							
10)⊠ The drawing(s) filed on <u>08 January 2007</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.									
	Applicant may not request that any obje	ction to the dr	rawing(s) be l	neld in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Fination Disclosure Statement(s) (PTO/SB/08) • No(s)/Mail Date	PTO-948)	4) 5) 6)	T =	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1. Claims 1-2, 4-11, 13-16 and 18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahn et al (6,681,111 hereinafter Ahn) found in co-pending application 10/077,556 now abandoned in view of Murtagh et al (2004/0133623 hereinafter Murtagh).

Regarding claim 1. Ahn teaches a general global gateway configured to support communications between a first network and a second network (see CDMA and GSM figure 1) to enable a mobile station subscribed in the first network to communicate using

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the second network (title, abstract, col. 2 lines 36 – 46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47), comprising:

a database configured to store an identity of the mobile station (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47); and

a logic unit configured to execute program logic to obtain authentication information from the first network based on the identity of the mobile station (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47) and further configured to determine whether authentication parameters from the MS satisfy GGG authentication criteria (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47).

According to Applicants, Ahn only shows a CDMA terminal with a GSM SIM card to provide roaming access to a GSM service subscriber in the CDMA area but does not show using the CDMA network for this purpose (see Applicants remark at the bottom of page 7, paper dated 2/28/08).

Murtagh teaches using a virtual mobile node to allow CDMA operator the ability to offer services to subscribers of GSM network (abstract, paragraphs 0002, 0031). Murtagh teaches the virtual mobile node (see VM in figures 3 and 4) connected to an iterworking gateway (see MAR in figure 3 and 4) wherein the virtual mobile node contains both GSM HLR and MSC functions (see figures 3 and 4, paragraphs 0033 and

0041) which means that CDMA operator can offer services to subscribers of the GSM network (paragraph 0033) and visa versa (paragraph 0034).

It would have been obvious for any one of ordinary skill in the art at the time of the invention was made to modify the gateway as taught by Ahn to include both GSM HLR and MSC functions as taught by Murtagh in order to allow CDMA operators the ability to offer its subscribers SMS messages from other mobile users equipped with different technology handsets as taught by Murtagh (paragraph 0031).

Regarding claim 2. Ahn further shows a location register configured to store a location of the MS to enable a call incoming to the MS from the first network to route the incoming call to the MS through the GGG (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47). Murtagh also show using location register so incoming calls from first network can be routed through the gateway (see VM and MAR in figures 3 and 4, paragraphs 0033 and 0041).

Regarding claim 4. Ahn teaches a service center configured to send and receive messages to and from the second network according to a message format of the service center (i.e. Ahn describes a short message service (SMS) of the roaming service where the IRGS functions as the SMC/short message center --- col. 12 lines 39-42). Murtagh teaches a virtual mobile node has a pseudo HLR and a pseudo MSC which functions as a service center to transfer messages between an entity in a foreign network having a different technology to an SMS entity connected to the local network

wherein both pseudo HLR and pseudo MSC are both located in the home network but operate with the protocol of the foreign network (abstract).

Regarding claim 5. Ahn teaches a second location register configured to store location of the MS to enable a call outgoing from the MS to the first network to route the outgoing call from the MS through the GGG (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47). Murtagh also teaches using location registers (see paragraphs 0033 and 0041, see virtual mobile node item 22 in figure 4 containing location registers so GMS and CDMA maybe interconnected).

Regarding claim 6. Murtagh teaching using IP to send and receive messages (paragraph 0031).

Regarding claim 7. Ahn teaches the service center is a short message service center (i.e. Ahn describes a short message service (SMS) of the roaming service where the IRGS functions as the SMC/short message center --- col. 12 lines 39-42). Murtagh also teaches SMS messaging (title, abstract) so as to provide SMS services to subscribers of GSM network (paragraphs 0002 and 0031).

Regarding claim 8. Ahn teaches wherein the messages deliver services that are provided by the first network that may not be provided by the second network (col. 1 lines 44-54). Murtagh also teaches the messages delivered by the first network that may not be provided by the second network (paragraphs 0002 and 0031).

Regarding claim 9. Ahn teaches wherein the SMSC is configured to send and receive SMS messages to validate a subscription in a network (i.e. Ahn describes a

short message service (SMS) of the roaming service where the IRGS functions as the SMC/short message center --- col. 12 lines 39-42). Murtagh also teaches service center/gateway mobile switching center uses SMS messages to validate subscribers (paragraphs 0039-0041, 0047).

Regarding claim 10. Ahn teaches a general global gateway configured to support communications between a first network and a second network (see CDMA and GSM figure 1) to enable a mobile station subscribed in the first network to communicate using the second network (title, abstract, col. 2 lines 36 – 46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47), comprising:

means for storing an identity of the mobile station (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47); and

means for executing program logic to obtain authentication information from the first network based on the identity of the mobile station (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47) and determine whether authentication parameters from the MS satisfy GGG authentication (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47).

According to Applicants, Ahn only shows a CDMA terminal with a GSM SIM card to provide roaming access to a GSM service subscriber in the CDMA area but does not show using the CDMA network for this purpose (see Applicants remark at the bottom of page 7, paper dated 2/28/08).

Murtagh teaches using a virtual mobile node to allow CDMA operator the ability to offer services to subscribers of GSM network (abstract, paragraphs 0002, 0031). Murtagh teaches the virtual mobile node (see VM in figures 3 and 4) connected to an iterworking gateway (see MAR in figure 3 and 4) wherein the virtual mobile node contains both GSM HLR and MSC functions (see figures 3 and 4, paragraphs 0033 and 0041) which means that CDMA operator can offer services to subscribers of the GSM network (paragraph 0033) and visa versa (paragraph 0034).

It would have been obvious for any one of ordinary skill in the art at the time of the invention was made to modify the gateway as taught by Ahn to include both GSM HLR and MSC functions as taught by Murtagh in order to allow CDMA operators the ability to offer its subscribers SMS messages from other mobile users equipped with different technology handsets as taught by Murtagh (paragraph 0031).

Regarding claim 11. Ahn teaches means for storing a location of the MS to enable a call incoming to the MS from the first network to route the incoming call to the MS through the GGG (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47).). Murtagh also show using location register so incoming calls from first network can be routed through the gateway (see VM and MAR in figures 3 and 4, paragraphs 0033 and 0041, see virtual mobile node item 22 in figure 4 containing location registers so GMS and CDMA maybe interconnected).

Regarding claim 13. Ahn teaches wherein the SMSC is configured to send and receive SMS messages to validate a subscription in a network (i.e. Ahn describes a short

message service (SMS) of the roaming service where the IRGS functions as the SMC/short message center --- col. 12 lines 39-42). Murtagh also teaches service center/gateway mobile switching center uses SMS messages to validate subscribers (paragraphs 0039-0041, 0047).

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Regarding claim 14. Ahn further shows a location register configured to store a location of the MS to enable a call incoming to the MS from the first network to route the incoming call to the MS through the GGG (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47). Murtagh also teaches using location registers (see paragraphs 0033 and 0041, see virtual mobile node item 22 in figure 4 containing location registers so GMS and CDMA maybe interconnected).

Method claim 15 is rejected for the same reasons as apparatus claim 1 since the recited apparatus would perform the claimed method steps.

Method claim 16 is rejected for the same reasons as apparatus claim 2 since the recited apparatus would perform the claimed method steps.

Regarding claim 18. Ahn teaches communicating directly from the MS to the first network after the MS has been authenticated (col. 2 lines 36-46).

Method claim 19 is rejected for the same reasons as apparatus claim 9 since the recited apparatus would perform the claimed method steps.

Method claim 20 is rejected for the same reasons as apparatus claim 2 since the recited apparatus would perform the claimed method steps.

Computer claim 21 is rejected for the same reasons as apparatus claim 1 and method claim 15 since the recited apparatus and method would perform the claimed program steps.

Regarding claim 22. Ahn teaches a processor (see processor 300 in figure 1 connecting to CDMA and GSM to enable a mobile station subscribed in the first network to communicate using the second network) comprising: a processing circuit configured to store an identity of the mobile station; obtain authentication information from the first network based on the identity of the mobile station; store the authentication information from the first network in a general global gateway (GGG) for subsequent accesses by the mobile station; use the stored authentication information from the first network to authenticate the mobile station; and determine whether authentication parameters from the mobile station satisfy GGG authentication criteria (see 300 figure 1, col. 2 lines 36-46, col. 3 lines 62-65, col. 4 lines 17-33, col. 5 lines 28-46, col. 6 lines 32-54, col. 12 lines 39-47).

According to Applicants, Ahn only shows a CDMA terminal with a GSM SIM card to provide roaming access to a GSM service subscriber in the CDMA area but does not show using the CDMA network for this purpose (see Applicants remark at the bottom of page 7, paper dated 2/28/08).

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contains both GSM HLR and MSC functions (see figures 3 and 4, paragraphs 0033 and 0041) which means that CDMA operator can offer services to subscribers of the GSM network (paragraph 0033) and visa versa (paragraph 0034).

It would have been obvious for any one of ordinary skill in the art at the time of the invention was made to modify the gateway as taught by Ahn to include both GSM HLR and MSC functions as taught by Murtagh in order to allow CDMA operators the ability to offer its subscribers SMS messages from other mobile users equipped with different technology handsets as taught by Murtagh (paragraph 0031).

Response to Arguments

2. Applicant's arguments with respect to claims 1-2, 4-11, 13-16 and 18-21 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry W. Taylor, telephone number (571) 272-7509, who is available Monday-Thursday, 6:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost, can be reached at (571) 272-7023. The central facsimile phone number for this group is **571-273-8300**.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (571) 272-2600, the 2600 Customer Service telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Barry W Taylor/ Primary Examiner, Art Unit 2617